

1. An azeotropic composition consisting essentially of 1,2-dichloro-3,3,3-trifluoropropene and hydrogen fluoride.

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An azeotropic or azeotrope-like composition consisting essentially of from about 1 to about 90 weight percent hydrogen fluoride and from about 10 to about 99 weight percent 1,2-dichloro-3,3,3-trifluoropropene, which composition has a boiling point of from about 26°C to about 68°C at a pressure of from about 23 psia to about 84 psia.

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3. The composition of claim 2 which consists of hydrogen fluoride and 1,2-dichloro-3,3,3-trifluoropropene.

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4. The composition of claim 2 wherein the hydrogen fluoride is present in an amount of from about 10 to about 80 weight percent.

5. The composition of claim 2 wherein the hydrogen fluoride is present in an amount of from about 40 to about 60 weight percent.

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6. The composition of claim 2 having a boiling point of about 26°C at a pressure of about 24 psia.

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7. The composition of claim 2 having a boiling point of about 45°C at a pressure of about 42 psia.

A method of forming an azeotropic or azeotrope-like composition which method consists essentially of blending from about 1 to about 90 weight percent hydrogen fluoride and from about 10 to about 99 weight percent 1,2-dichloro-3,3,3-trifluoropropene, which composition has a boiling point of from about 26°C to about 68°C at a pressure of from about 23 psia to about 84 psia.

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- 9. The method of claim 8 wherein the composition consists of hydrogen fluoride and 1,2-dichloro-3,3,3-trifluoropropene.
- 10. The method of claim 8 wherein the hydrogen fluoride in present in an amount of from about 10 to about 80 weight percent.
- 11. The method of claim 8 wherein the hydrogen fluoride in present in an amount of from about 40 to about 60 weight percent.
- 12. The method of claim 8 wherein the composition has a boiling point of from about 26°C at a pressure of about 24 psia.
 - 13. The method of claim 8 wherein the composition has a boiling point of from about 45°C at a pressure of about 42 psia.

14. A process for removing 1,2-dichloro-3,3,3-trifluoropropene from a mixture of 1,2-dichloro-3,3,3-trifluoropropene and at least one impurity, which process comprises adding hydrogen fluoride to the mixture in an amount sufficient to form an azeotropic or azeotrope-like composition of the 1,2-dichloro-3,3,3-trifluoropropene and the hydrogen fluoride, and thereafter separating the azeotropic composition from the impurity.

- 15. The process of claim 14 wherein the impurity does not form a close-boiling azeotropic mixture with 1,2-dichloro-3,3,3-trifluoropropene, hydrogen fluoride or a mixture of 1,2-dichloro-3,3,3-trifluoropropene and hydrogen fluoride.
- 16. The process of claim 14 wherein the impurity comprises a halocarbon.
- 17. The process of claim 14 wherein the impurity is miscible with 1,2-dichloro-3,3,3-trifluoropropene.





- 18. The process of claim 14 wherein the impurity is 1,1,1,3,3-pentachloropropane.
- 19. The process of claim 14 wherein the separating is conducted by distillation.
- 5 20. The process of claim 14 wherein the azeotropic composition consists essentially of from about 1 to about 90 weight percent hydrogen fluoride and from about 10 to about 99 weight percent 1,2-dichloro-3,3,3-trifluoropropene.
- 21. The process of claim 14 wherein the azeotropic composition consists essentially of from about 10 to about 80 weight percent hydrogen fluoride.
 - 22. The process of claim 14 wherein the azeotropic composition consists essentially of from about 40 to about 60 weight percent hydrogen fluoride.